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PRODUCTION OF TAXANE-TYPE DITERPENE

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ABSTRACT

PURPOSE: To obtain a taxane-type diterpene compound useful for a medicine, etc., of ovarian cancer, breast cancer and lung cancer, etc., in a high productivity by culturing tissue or cell, etc., of a plant producing a taxane-type diterpene in a medium containing fatty acids and recovering a product from the resultant cultured material.

CONSTITUTION: A tissue and/or cell of a plant (e.g. *Taxus brevifolia* NUTT) producing taxane-type diterpene (e.g. taxol, et.) is cultured in a medium containing 10-22C fatty acids such as oleic acid, linoleic acid, linolenic acid, arachidonic acid, capric acid, decenoic acid, lauric acid, dodecenoic acid, myristic acid, palmitic acid, stearic acid, eicosapentaenoic acid or docosahexaenoic acid in a concentration of 0.01-1000.mu.M. The object taxane-type diterpene useful for a remedy of ovarian cancer, breast cancer and lung cancer, etc., is obtained in a high productivity by recovering the taxane-type diterpene from the resultant cultured material.

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